

CLAIMS:

1. An image processing device for creating a display image from an X-ray image in which at least two spatially separate objects are displayed, wherein part-images which show the objects are determined in the X-ray image and the part-images are arranged in the display image in a spatially separate manner, wherein the size of the display image is such
5 that the part of the display image that is free of the part-images is smaller than the corresponding part of the X-ray image.
2. An X-ray device comprising:
 - an X-ray source for generating X-ray radiation,
 - 10 - an X-ray image detector for acquiring X-ray images,
 - an image processing device for creating a display image from an X-ray image in which at least two spatially separate objects are displayed, wherein part-images which show the objects are determined in the X-ray image and the part-images are arranged in the display image in a spatially separate manner, wherein the size of the display image is such
15 that the part of the display image that is free of the part-images is smaller than the corresponding part of the X-ray image.
3. An X-ray device as claimed in claim 2, wherein in each case the same surface area of the X-ray image detector is exposed to X-ray radiation as the X-ray images are being
20 created.
4. An image processing device as claimed in claim 1 or an X-ray device as claimed in claim 2, wherein the part-images are spaced a minimum distance apart in the display image.
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5. An image processing device as claimed in claim 1 or an X-ray device as claimed in claim 2, wherein the X-ray images are mammography X-ray images.

6. An image processing device as claimed in claim 1 or an X-ray device as claimed in claim 2, wherein one of the objects shown is a marker.

7. A method of creating a display image from an X-ray image, comprising the following steps:

- a) determining part-images, which each show an object, in the X-ray image,
- b) arranging the part-images in the display image in a spatially separate manner,
- c) dimensioning the size of the display image such that the part of the display image that is free of the part-images is smaller than the corresponding part of the X-ray image.

8. A method as claimed in claim 7, comprising the further step:

- d) filling the part of the display image that is free of the part-images with image information from the part of the X-ray image that is free of the part-images.

9. An image processing device as claimed in claim 1 or an X-ray device as claimed in claim 2 or a method as claimed in claim 7, wherein in order to determine the part-images use is made of a segmenting method in which the image values of the part of the X-ray image that is free of the part-images are determined and a coherent image area which contains mainly pixels with these image values is determined in the X-ray image.

10. A computer program or computer program product for an image processing device as claimed in claim 1 for carrying out the method as claimed in claim 7.